

Title (en)

DNA encoding a polypeptide having stereoselective transaminase activity, and transformants comprising said DNA

Title (de)

Deoxynukleinsäure welche ein Polypeptid mit stereoselektiver Transaminase Aktivität kodiert, sowie die Deoxynukleinsäure enthaltende Transformanden

Title (fr)

ADN codant pour un polypeptide à activité transaminase stéréosélective, et transformants comprenant cet ADN

Publication

EP 0987332 A1 20000322 (EN)

Application

EP 98914111 A 19980420

Priority

- JP 9801814 W 19980420
- JP 12173297 A 19970423

Abstract (en)

A process for efficiently producing optically active amino compounds, mainly (R)-amino compounds, at a low cost by means of a microbial enzyme; a polypeptide suitable for use in the production process and having a stereoselective transaminase activity; and a DNA coding for the polypeptide. The process is characterized by comprising causing a transaminase to act on a ketone compound as an amino acceptor in the presence of a primary amine as an amino donor to stereoselectively transfer the amino group to thus obtain an optically active amino compound. The DNA contains a base sequence coding for a polypeptide having a stereoselective transaminase activity. The polypeptide can be obtained by incubating a microorganism belonging to the genus *Arthrobacter*.

IPC 1-7

C12P 13/04; **C12N 15/54**

IPC 8 full level

C12P 13/04 (2006.01); **C12N 1/21** (2006.01); **C12N 9/10** (2006.01); **C12N 15/54** (2006.01); **C12P 13/00** (2006.01)

CPC (source: EP US)

C12N 9/1096 (2013.01 - EP US); **C12P 13/001** (2013.01 - EP US)

Cited by

WO2011026556A1; US10023886B2; CN103189519A; CN103472093A; EP2857505A3; EP2862938A3; EA022764B1; WO2014060571A1; US8932836B2; WO2012007548A1; US8577622B2; EP2857505A2; EP2862938A2; EP0848065B1; US6413752B1; US6727083B2; US8921079B2; US9434968B2; US10138503B2; US10767202B2; US11371067B2; US8293507B2; US8889380B2; US9133445B2; US9353355B2; US9550982B2; US9944963B2; US10160985B2; US10619176B2; US11078505B2

Designated contracting state (EPC)

BE CH DE ES FR GB IE IT LI NL

DOCDB simple family (publication)

US 2002192786 A1 20021219; **US 7169592 B2 20070130**; DE 69841075 D1 20091001; EP 0987332 A1 20000322; EP 0987332 A4 20020306; EP 0987332 B1 20090819; JP 4213771 B2 20090121; WO 9848030 A1 19981029

DOCDB simple family (application)

US 11270602 A 20020402; DE 69841075 T 19980420; EP 98914111 A 19980420; JP 54546098 A 19980420; JP 9801814 W 19980420